

What is claimed is:

1. A dryer, comprising:
a cylindrical shell defining first and second ends, an interior, an
5 exterior, and a longitudinal axis;
a burner located at the first end of the shell;
a plurality of flights secured to the interior of the shell and
overlapping each other, each of said flights including an inner metal plate
defining an inner surface that is convex toward the longitudinal axis of the shell
10 and an outer surface that is concave toward the shell; and
insulation secured to the outside of said inner metal plate.
2. A dryer as recited in claim 1, wherein said insulation is flexible
insulation.
15
3. A dryer as recited in claim 2, wherein said insulation is made from
ceramic fibers.
4. A dryer as recited in claim 1, and further comprising an outer metal
20 plate, which is convex toward the drier shell and concave toward the axis of the
shell, wherein said insulation is sandwiched between said inner and outer metal
plates.

5. A dryer as recited in claim 4, wherein said insulation is made of ceramic fibers.

6. A combustion flight for a dryer, comprising:

5 an inner metal shell having a convex inner surface and a concave outer surface;

an outer metal shell having a convex outer surface and a concave inner surface, said inner and outer metal shells being secured together with their concave surfaces facing each other to form a hollow compartment; and

10 insulation located in said hollow compartment between said inner and outer metal shells.

7. A combustion flight for a dryer as recited in claim 6, wherein said insulation is made of fibers.

15

8. A combustion flight for a dryer as recited in claim 7, wherein said insulation is made of ceramic fibers.

9. A combustion flight for a dryer as recited in claim 6, and further

20 comprising clips bolted to said flight for securing said flight to the shell of the dryer.